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United States Department of Agriculture,

MONTHLY LIST OF PUBLICATIONS.

[JULY, 1923.]

READ CAREFULLY BEFORE ORDERING.

Send no remittances to the U. S. Department of Agriculture.

A copy of any of the publications listed herein, except those otherwise noted, may be obtained free upon application to the assistant in charge of Publications, United States Department of Agriculture, Washington, D. C., as long as the department's supply lasts.

After this department's supply is exhausted, publications can still be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C., but by purchase only, and at the prices noted herein.

Send all remittances to the Superintendent of Documents direct. His office is not a part of the Department of Agriculture.

FARMERS' BULLETINS—FOR FREE DISTRIBUTION.

NOTE.—As long as the department's somewhat limited supply of the current numbers of Farmers' Bulletins lasts they may be obtained by all applicants free of charge. They are also for sale at 5 cents per copy unless otherwise noted.

Distribution of Types of Farming in the United States. By W. J. Spillman, Consulting Specialist, Bureau of Agricultural Economics. Pp. 30, figs. 5. May, 1923. (Farmers' Bulletin 1289.)

Attempts to analyze in a general way what farm enterprises are adapted to a region by studying the physical, biological, and economic conditions prevailing in the region.

The Wheat Strawworm and Its Control. By W. J. Phillips, Entomologist, and F. W. Poos, Assistant Entomologist, Cereal and Forage Insect Investigations, Bureau of Entomology. Pp. 10, figs. 12. May, 1923. (Farmers' Bulletin 1323.)

Describes economic importance of the wheat strawworm, its life history, and the damage it does, and suggests methods of control.

Lamb and Mutton and Their Use in the Diet. Prepared in the office of home economics, States Relations Service. Pp. 14, fig. 1. June, 1923. (Farmers' Bulletin 1324.)

Supersedes Farmers' Bulletin 526, "Mutton and Its Value in the Diet."

Rural Planning—The Social Aspects. By Wayne C. Nason, junior economist, Bureau of Agricultural Economics. Pp. 30, figs. 25. May, 1923. (Farmers' Bulletin 1325.)

Deals with the improvement and beautifying of various rural institutions, such as recreation places, public grounds, and trade and civic centers. Its purpose is not to tell how things should be done, but to show what has actually been done.

The Boll-Weevil Problem. By W. D. Hunter, Entomologist in Charge, and B. R. Coad, Entomologist, Southern Field-Crop Insect Investigations, Bureau of Entomology. Pp. 30, figs. 5. June, 1923. (Farmers' Bulletin 1329.)

Supersedes Farmers' Bulletin 1262 of the same title.

Back-Yard Poultry Keeping. By Rob R. Slocum, formerly of the Animal Husbandry Division, Bureau of Animal Industry. Pp. 23, figs. 15. May, 1923. (Farmers' Bulletin 1331.)

This bulletin is a revision of and supersedes Farmers' Bulletin 889, "Back-yard Poultry Keeping."

Tomatoes as a Truck Crop. By W. R. Beattie, Horticulturist, Office of Horticultural and Pomological Investigations, Bureau of Plant Industry. Pp. 34, figs. 21. June, 1923. (Farmers' Bulletin 1333.)

DEPARTMENT BULLETINS—TECHNICAL.

The publications listed below are technical or scientific bulletins applying to a special industry or locality. The edition is limited, but they will be furnished free as long as the supply lasts to persons who can use such specialized information.

Production of Sirup from Sweet Potatoes. By H. C. Gore, chemist in charge, Fruit and Vegetable Utilization Laboratory, H. C. Reese, assistant development engineer, and J. O. Reed, assistant development engineer, office of development work, Bureau of Chemistry. Pp. 34, figs. 13, July 3, 1923. (Department Bulletin 1158.) Price, 10 cents.

Besides discussing experiments conducted in the making of sweet potato sirup, the commercial production of this product is also dealt with in this bulletin.

Report on Bird Censuses in the United States, 1916 to 1920. By May Thatcher Cooke, assistant in biological investigations, Bureau of Biological Survey. Pp. 36, July 20, 1923. (Department Bulletin 1165.) Price, 5 cents.

Apple By-Products as Stock Foods. By G. P. Walton, Assistant Chemist, and G. L. Bidwell, Chemist in Charge, Cattle Food Laboratory, Miscellaneous Division, Bureau of Chemistry. Pp. 40, fig. 1. July 26, 1923. (Department Bulletin 1166.) Price, 5 cents.

CIRCULARS.

Arbor Day. Prepared by the Forest Service. Pp. 15, figs. 7. June, 1923. (Department Circular 265.) Price, 5 cents.

This publication supersedes Department Circular 8 of the same title.

The Work of the Newlands Reclamation Project Experiment Farm in 1920 and 1921. By F. B. Headley, Farm Superintendent, and E. W. Knight, Assistant Agriculturist, Office of Western Irrigation Agriculture, Bureau of Plant Industry. Pp. 26, figs. 9. March, 1923. (Department Circular 267.) Price, 5 cents.

Flag Smut of Wheat. By W. H. Tisdale, Pathologist in Charge of Cereal-Smut Investigations, Office of Cereal Investigations, Bureau of Plant Industry, G. H. Dungan, Associate in Crop Production, Illinois Agricultural Experiment Station, University of Illinois, and C. E. Leighty, Agronomist in Charge of Eastern Wheat Investigations, Office of Cereal Investigations, Bureau of Plant Industry. Pp. 7, pls. 2. June, 1923. (Department Circular 273.) Price, 5 cents.

Greasewood as a Poisonous Plant. By C. Dwight, Physiologist in Charge, A. B. Clawson, Physiologist, and James F. Couch, Pharmacological Chemist, Investigations of Stock Poisoning by Plants, Pathological Division, Bureau of Animal Industry. Pp. 4, figs. 2. July, 1923. (Department Circular 279.) Price, 5 cents.

A Forest Fire Prevention Handbook for the School Children of California. Prepared by the Forest Service, United States Department of Agriculture, and the State forester in cooperation with the superintendent of public instruction of the State of California. Pp. 24, il. July 2, 1923. (Miscellaneous Circular 7.) Price, 10 cents.

Demonstration Courses in Kiln Drying, Boxing and Crating, Gluing of Wood, Wood properties and Uses. Prepared by the Forest Products Laboratory, Forest Service. Pp. 20, il. June, 1923. (Miscellaneous Circular No. 8.) Price, 5 cents.

MISCELLANEOUS.

A Biological Survey of the Pribilof Islands, Alaska. I. Birds and Mammals. II. Insects, Arachnids, and Chilopods. Part I by Edward A. Preble, assistant biologist, Division of Biological Investigations, and W. L. McAtee, in charge food habits research, Bureau of Biological Survey. Part II by various entomologists, with an introduction by W. L. McAtee, Biological Survey. pp. 255, pls. 15. June 20, 1923. (North American Fauna No. 46.) Price, 40 cents.

For sale only.

The Acid Lime Fruit in Hawaii. By W. T. Pope, Horticulturist. Pp. 20, pls. 6. July 9, 1923. (Hawaii Agricultural Experiment Station Bulletin 49.) Price, 10 cents.

Truck-Crop Insect Pests in the Virgin Islands and Methods of Combating Them. By Charles E. Wilson, Entomologist. Pp. 35, figs. 24. June 21, 1923. (Virgin Islands Agricultural Experiment Station Bulletin 4.) Price, 5 cents.

SERIALS.

Journal of Agricultural Research, Vol. 24, No. 3, April 21, 1923. Contents: Gummosis of citrus. (Calif. 33.) By Howard S. Fawcett.—Occurrence and significance of phloem necrosis in the Irish potato. (G-296.) By Ernst F. Artschwager.—Cultivated and wild hosts of sugar-cane or grass mosaic. (G-297.) By E. W. Brandes and Peter J. Klaphaak.—Protein synthesis by azotobacter. (Kans.-33.) By O. W. Hunter. Pp. 191-274, pls. 17, figs. 3. Price, 10 cents.

Same. Vol. 24, No. 4, April 28, 1923. Contents: Studies of the temperature of individual insects, with special reference to the honey bee. (Minn.-45.) By Gregor B. Pirsch.—A study on the effect of changing the absolute reaction of soils upon their azotobacter content. (Kans.-34.) By P. L. Gainey.—Oxidation of sulphur by microorganisms in black alkali soils. (N. J.-9.) By Selman A. Waksman, Clara H. Wark, Jacob Joffe, and Robert L. Starkey.—Peach rosette, an infectious mosaic. (Ga.-3.) By J. A. McClintock.—Toxicity and antagonism of various alkali salts in the soil. (Utah-17.) By F. S. Harris, M. D. Thomas, and D. W. Pittman.—Identification of certain species of fusarium isolated from potato tubers in Montana. (Mont.-10.) By H. E. Morris and Grace B. Nutting. Pp. 275-364, pls. 14, figs. 14. Price, 10 cents.

Same. Vol. 24, No. 5, May 5, 1923. Contents: Determination of Fatty Acids in butter fat: II. (Mass.-8.) By E. B. Holland, Mary E. Garvey, H. B. Pierce, Anne C. Messer, J. G. Archibald, and C. O. Dunbar.—Striped sod webworm, *Crambus mutabilis* Clemens. (K-106.) By George G. Ainslie.—Silver-striped webworm, *Crambus praeffectellus* Zincken. (K-107.) By George G. Ainslie.—Movement of soil moisture from small capillaries to the large capillaries of the soil upon freezing. (Mich.-13.) By George John Bouyoucos.—Nutritive value of the Georgia velvet bean (*Stizolobium deeringianum*). (Ark.-3.) By J. W. Read and Barnett Sure. Pp. 365-440, figs. 16, pls. 4. Price, 10 cents.

NOTE.—Volumes 1 to 4 of the Journal of Agricultural Research were published monthly, volumes 5 to 16 weekly, and volume 17 monthly. Beginning with volume 18, the issue is semimonthly. The publication of the Journal was suspended Dec. 1, 1921, and no parts were issued for 1922. The Journal is now being published weekly, beginning Jan. 6, 1923, with volume 23, No. 1. The Journal is distributed free only to libraries of agricultural colleges and experiment stations, to large universities, technical schools, and such institutions as make suitable exchanges with the department. *It will not be sent free to individuals.* The Superintendent of Documents will receive subscriptions for this publication. The domestic price is \$4 per year and the foreign price \$5.25 per year.

Experiment Station Record. Vol. 48, No. 8, June, 1923. Pp. 701-800. Price, 10 cents.

Same. Vol. 48, No. 9, Abstract Number. June 26, 1923. Pp. 801-900. Price, 10 cents.

NOTE.—The Record is a technical review of the world's scientific literature pertaining to agriculture, issued in 2 volumes a year, 10 numbers each. Its free distribution is restricted to persons connected with the agricultural colleges, experiment stations, and similar institutions, and to libraries and exchanges. The subscription price is 75 cents a volume (foreign subscriptions, \$1.25 a volume), payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.

The Official Record. Vol. 2, Nos. 27 to 30, July 4, 11, 18, and 25, 1923.

This publication carries official announcements and information concerning the work of the department in general and of the various bureaus. Its free distribution is confined to employees and cooperators of the department. It can be subscribed to through the Office of the Superintendent of Documents, Government Printing Office, Washington, D. C., for 50 cents per year (foreign, \$1.10). Remittance should be addressed to the above-mentioned official.

Weather, Crops, and Markets. Vol. 4, Nos. 1 to 4, July 7, 14, 21, and 28.

This publication is issued weekly and combines three important regular periodicals heretofore issued as the Market Reporter, The Monthly Crop Reporter, and the National Weather and Crop Bulletin, and which has been discontinued. The free distribution is restricted to individuals and institutions who are assisting the department in disseminating information connected with agriculture.

Others desiring publication can purchase it from the Superintendent of Documents, the subscription price being \$1.00 a year. Address remittance to that official.

SEPARATES.

Imports and Exports of Agricultural Products. Compiled by Nat. C. Murray, Lewis B. Flohr, O. A. Juve, and Caroline G. Gries, Bureau of Agricultural Economics, from reports of the Bureau of Foreign and Domestic Commerce. Pp. 34. (Separate 880, Yearbook 1922.) Price, 5 cents.

Statistics of Grain Crops, 1922. Compiled by Nat. C. Murray, Lewis B. Flohr, O. A. Juve, Emma S. Thompson, Lila Thompson, Caroline G. Gries, John W. Strowbridge, and James J. Window, Bureau of Agricultural Economics. Pp. 97. (Separate 881, Yearbook 1922.) Price, 10 cents.

Hog Production and Marketing. By E. Z. Russell, S. S. Buckley, Bureau of Animal Industry; O. E. Baker, C. E. Gibbons, R. H. Wilcox, H. W. Hawthorne, S. W. Mendum, O. C. Stine, G. K. Holmes, A. V. Swarthout, Bureau of Agricultural Economics; W. B. Bell, Bureau of Biological Survey; G. S. Jamieson, Bureau of Chemistry; C. W. Warburton, Bureau of Plant Industry; C. F. Langworthy, States Relations Service. Pp. 100, figs. 56. (Separate 882, Yearbook 1922.) Price, 15 cents.

The Year in Agriculture. (Annual Report of the Secretary, 1922.) Pp. 82, figs. 21. (Separate 883, Yearbook 1922.) Price, 10 cents.

Statistics of Crops Other Than Grain Crops, 1922. Compiled by Nat. C. Murray, Lewis B. Flohr, O. A. Juve, Emma S. Thompson, Lila Thompson, Caroline G. Gries, Birdella Miller, M. E. Murphy, James J. Window, and Perry Elliott, Bureau of Agricultural Economics. Pp. 129. (Separate 884, Yearbook 1922.) Price, 15 cents.

History and Status of Tobacco Culture. By W. W. Garner and E. G. Moss, Bureau of Plant Industry; and H. S. Yohe, F. B. Wilkinson, and O. C. Stine, Bureau of Agricultural Economics. Pp. 74, figs. 28. (Separate 885, Yearbook 1922.) Price, 10 cents.

Timber: Mine or Crop? By W. B. Greeley, Earle H. Clapp, Herbert A. Smith, Raphael Zon, W. N. Sparhawk, Ward Shepard, and J. Kittredge, jr., Forest Service. Pp. 98, figs. 22. (Separate 886, Yearbook 1922.) Price, 15 cents.

Miscellaneous Agricultural Statistics, 1922. Compiled by Nat. C. Murray and Lewis B. Flohr, Bureau of Agricultural Economics, and Preston C. Day, Weather Bureau. Pp. 61. (Separate 887, Yearbook 1922.) Price, 10 cents.

Live Stock, 1922. Compiled by Nat. C. Murray, Lewis B. Flohr, O. A. Juve, Emma S. Thompson, Florence C. Fitch, Lila Thompson, and James J. Window, Bureau of Agricultural Economics. Pp. 119. (Separate 888, Yearbook, 1922.) Price, 15 cents.

Forest Statistics. By Louis S. Murphy, W. R. Mattoon, Harry Irion, Alice M. Meynes, and C. R. Tillotson, Forest Service. Pp. 17. (Separate 889, Yearbook 1922.) Price, 5 cents.

Farm Operations. Compiled by O. A. Juve, Bureau of Agricultural Economics. Pp. 33. (Separate 890, Yearbook 1922.) Price, 5 cents.

Oats, Barley, Rye, Rice, Grain Sorghums, Seed Flax, and Buckwheat. By C. R. Ball, T. R. Stanton, H. V. Harlan, C. E. Leighty, C. E. Chambliss, and A. C. Dillman, Bureau of Plant Industry; O. C. Stine, O. E. Baker, O. A. Juve, and W. J. Spillman, Bureau of Agricultural Economics. Pp. 100, figs. 64. (Separate 891, Yearbook 1922.) Price, 15 cents.

PUBLICATIONS OF THE WEATHER BUREAU.

Publications of the Weather Bureau are obtainable only from the Chief of the Weather Bureau or the Superintendent of Documents, Government Printing Office, at the prices noted herein.

Monthly Weather Review, Vol. 51, No. 4, April, 1923. Pp. 175-237, pl. 1, figs. 23, charts 9. Price 15 cents a copy, \$1.50 a year, payable to the Superintendent of Documents.

Special articles: The occurrence of lightning storms in relation to forest fires in California. By S. B. Show and E. I. Kotok.—Discussion of thunderstorms and forest fires in California. By E. A. Beals.—Forest-fire weather in the southern Appalachians. By E. F. McCarthy.—Solar radiation intensities and terrestrial weather. By C. F. Marvin.—Weather forecasting from ships at sea. By A. J. Henry.—Concerning the accuracy of free-air pressure maps. By C. L. Meisinger.—Cox on thermal belts and fruit growing in North Carolina. By A. J. Henry.—The rainfall of Jamaica. By A. J. Henry.

NOTE.—The Monthly Weather Review is sent *free* only to organizations and scientific institutions exchanging like courtesies, to libraries of and workers in agricultural colleges and experiment stations, to universities and other institutions of learning in which systematic courses of instruction in meteorology are offered, and to officials of the Government.

Single numbers will be supplied free so long as the bureau's supply lasts, and the Review can be obtained regularly from the Superintendent of Documents at the nominal price of \$1.50 per annum. Single copies may be had from the same source at 15 cents the copy.

EDWIN C. POWELL,
Acting Assistant in Charge of Publications.

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